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DOCKET NO. D-1974-061 CP-4 DELAWARE RIVER BASIN COMMISSION

Borough of Spring City
Wastewater Treatment Plant
Spring City Borough, Chester County, Pennsylvania

PROCEEDINGS

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) by Environmental Engineering & Management Associates, Inc. (EEM) on behalf of the Borough of Spring City (docket holder) on February 21, 2012 (Application), for the renewal of an existing wastewater treatment plant (WWTP) discharge. National Pollutant Discharge Elimination System (NPDES) Permit No. PA0028614 for this project was approved by the Pennsylvania Department of Environmental Protection (PADEP) on April 13, 2011, effective May 1, 2011.

The Application was reviewed for continuation of the project in the Comprehensive Plan and approval under Section 3.8 of the *Delaware River Basin Compact*. The Chester County Planning Commission has been notified of pending action. A public hearing on this project was held by the DRBC on September 12, 2012.

A. <u>DESCRIPTION</u>

- **1. Purpose**. The purpose of this docket is to renew the discharge of up to 0.345 million gallons per day (mgd) of treated effluent from existing Outfall No. 001 at the 0.6 mgd Borough of Spring City WWTP. Additionally, this docket approves the construction and operation of a chemical feed facility that will enhance phosphorous removal at the existing WWTP.
- **Location**. The existing WWTP will continue to discharge treated effluent to the Schuylkill River at River Mile 92.47 41.3 (Delaware River Schuylkill River) via Outfall No. 001, in the Borough of Spring City, Chester County, Pennsylvania as follows:

OUTFALL NO.	LATITUDE (N)	LONGITUDE (W)
001	40° 10' 23"	75° 32' 15"

Area Served. The existing WWTP will continue to serve the Borough of Spring City, Chester County, Pennsylvania. For the purpose of defining the Area Served, Section B (Type of Discharge) and D (Service Area) of the docket holder's Application are incorporated herein by reference, to the extent consistent with all other conditions contained in the DECISION Section of this docket.

4. Physical Features.

- **a.** <u>Design Criteria</u>. The docket holder will continue to operate the 0.6 mgd WWTP. Effluent limits from the PADEP and the Commission are based upon the average annual discharge flow rate of 0.345 mgd. Construction of the chemical feed facilities to enhance phosphorous removal will not modify the treatment capacity of the WWTP.
- **b.** <u>Facilities</u>. The existing WWTP consists of a grit removal area, bar screens, an equalization tank, two (2) primary clarifiers, one (1) first stage trickling filter, one (1) second stage trickling filter, two (2) final clarifiers, and two (2) chlorine contact tanks equipped with dechlorination. Additionally, several pump stations are utilized to maximize treatment during wet weather events at the facility.

The modified WWTP will also consist of a chemical feed facility that will enhance phosphorous removal at the WWTP.

The project facilities are not located in the 100-year floodplain.

Wasted sludge will be hauled off-site by a licensed hauler for disposal at a (State-approved) facility.

- **c.** <u>Water withdrawals</u>. The potable water supply in the project service area is supplied by the Pennsylvania American Water Company or individual on-lot wells.
- d. NPDES Permit / DRBC Docket. NPDES Permit No. PA0028614 was approved by the PADEP on April 13, 2011 (effective May 1, 2011) and includes final effluent limitations for the project discharge of 0.345 mgd to surface waters classified by the PADEP as Warm Water Fishery (WWF). The following average monthly effluent limits are among those listed in the NPDES Permit and meet or are more stringent than the effluent requirements of the DRBC.

EFFLUENT TABLE A-1: DRBC Parameters Included in NPDES Permit

OUTFALL 001 (WWTP)				
PARAMETER	LIMIT	MONITORING		
pH (Standard Units)	6 to 9 at all times	As required by NPDES Permit		
Total Suspended Solids	30 mg/l	As required by NPDES Permit		
CBOD (5-Day at 20° C)	25 mg/l (85% minimum removal*)	As required by NPDES Permit		

OUTFALL 001 (WWTP)				
PARAMETER	LIMIT	MONITORING		
Ammonia Nitrogen (5-1 to 10-31)	8 mg/l	As required by NPDES Permit		
(11-1 to 4-30)	12 mg/l			
Fecal Coliform	200 colonies per 100 ml as a geo.	As required by NPDES Permit		
	avg.			

^{*} DRBC Requirement

EFFLUENT TABLE A-2: DRBC Parameters Not Included in NPDES Permit

OUTFALL 001 (WWTP)				
PARAMETER	LIMIT	MONITORING		
Total Dissolved Solids*	1,000 mg/l *	Quarterly **		

^{*} DRBC Requirement

The PADEP has required a Phosphorous limit of 2.0 mg/l from January 1, 2013 through the expiration of the NPDES Permit for the existing WWTP. The DRBC does not require Phosphorous effluent limits outside of Special Protection Waters.

- **e.** <u>Cost.</u> Construction of the chemical feed facility and its design is estimated to cost \$130,000.
- **f.** Relationship to the Comprehensive Plan. Docket No. D-74-61 CP was approved on September 25, 1974 and incorporated both the existing 0.345 mgd Borough of Spring City WWTP the then proposed 2.1 mgd regional WWTP in the Comprehensive Plan. The 2.1 mgd WWTP was never constructed. Docket No. D-74-61 CP-2 removed the regional WWTP from the Comprehensive Plan and approved the expansion of the 0.345 mgd WWTP to 0.6 mgd. Docket No. D-1974-061 CP-3 as well as this docket continued/continues approval of the 0.6 mgd WWTP in the Comprehensive Plan.

B. FINDINGS

The purpose of this docket is to renew the discharge of up to 0.345 mgd of treated effluent from existing Outfall No. 001 at the 0.6 mgd Borough of Spring City WWTP. Additionally, this docket approves the construction and operation of a chemical feed facility that will enhance phosphorous removal at the existing WWTP to meet PADEP requirements.

Near the project site, the Schuylkill River has an estimated seven day low flow with a recurrence interval of ten years of 205 mgd (317 cfs). The ratio of this low flow to the average design wastewater discharge from the new plant (0.6 mgd / 0.93 cfs) is 340 to 1.

The nearest surface water intake of record for public water supply downstream of the project discharge is operated by the Phoenixville Water Department, located on the Schuylkill River, approximately 2 river miles downstream.

^{**} See DECISION Condition II.u.

The project does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact on the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

The limits in the NPDES Permit are in compliance with Commission effluent quality requirements, where applicable.

The project is designed to produce a discharge meeting the effluent requirements as set forth in the Commission's *Water Quality Regulations (WQR)*.

C. DECISION

- I. Effective on the approval date for Docket No. D-1974-061 CP-4 below:
- a. The project described in Docket No.D-1974-061 CP-3 is removed from the Comprehensive Plan to the extent that it is not included in Docket No. D-1974-061 CP-4; and
- b. Docket No. D-1974-061 CP-3 is terminated and replaced by Docket No. D-1974-061 CP-4; and
- c. The project and the appurtenant facilities described in Section A "Physical Features" of this docket shall be added to the Comprehensive Plan.
- II. The project and appurtenant facilities as described in the Section A "Physical Features" of this docket are approved pursuant to Section 3.8 of the *Compact*, subject to the following conditions:
- a. Docket approval is subject to all conditions, requirements, and limitations imposed by the PADEP in its NPDES Permit, and such conditions, requirements, and limitations are incorporated herein, unless they are less stringent than the Commission's.
- b. The facility and operational records shall be available at all times for inspection by the DRBC.
- c. The facility shall be operated at all times to comply with the requirements of the Commission's WQR.
- d. The docket holder shall comply with the requirements contained in the Effluent Tables in Section A.4.d. of this docket. The docket holder shall submit DRBC required monitoring results directly to DRBC (Project Review Section). The monitoring results shall be submitted annually (by January 31) absent any observed limit violations. If a DRBC effluent limit is violated, the docket holder shall submit the results and provide a written explanation within 30 days of the violation the action(s) the docket holder has taken to correct the violation and protect against a future violation.

- e. Except as otherwise authorized by this docket, if the docket holder seeks relief from any limitation based upon a DRBC water quality standard or minimum treatment requirement, the docket holder shall apply for approval from the Executive Director or for a docket revision in accordance with Section 3.8 of the *Compact* and the *Rules of Practice and Procedure*.
- f. If at any time the receiving treatment plant proves unable to produce an effluent that is consistent with the requirements of this docket approval, no further connections shall be permitted until the deficiency is remedied.
- g. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.
- h. The discharge of wastewater shall not increase the ambient temperatures of the receiving waters by more than 5°F, nor shall such discharge result in stream temperatures exceeding 87°F. (Non-tidal, Non-trout Waters)
- i. Sound practices of excavation, backfill and reseeding shall be followed to minimize erosion and deposition of sediment in streams.
- j. Within 10 days of the date that construction of the project has started, the docket holder shall notify the DRBC of the starting date and scheduled completion date.
- k. Within 30 days of completion of construction of the approved project, the docket holder is to submit to the attention of the Project Review Section of DRBC a Construction Completion Statement ("Statement") signed by the docket holder's professional engineer for the project. The Statement must (1) either confirm that construction has been completed in a manner consistent with any and all DRBC-approved plans or explain how the as-built project deviates from such plans; (2) report the project's final construction cost as such cost is defined by the project review fee schedule in effect at the time the application was made; and (3) indicate the date on which the project was (or is to be) placed in operation. In the event that the final project cost exceeds the estimated cost used by the docket holder to calculate the DRBC project review fee, the statement must also include (4) the amount of any outstanding balance owed for DRBC review. The outstanding balance will equal the difference between the fee paid to the Commission and the fee calculated on the basis of the project's final cost, using the formula and definition of "project cost" set forth in the DRBC's project review fee schedule in effect at the time application was made.
- l. The WWTP modifications shall be completed within three years of approval of this docket or the docket holder shall demonstrate to the Executive Director that it has expended substantial funds (in relation to the cost of the project) in reliance upon this docket approval. If the modifications have not been completed within three years of Docket Approval and the docket holder does not submit a cost analysis demonstrating substantial funds have been expended, Commission approval of the modifications to the existing WWTP shall expire. If the modifications approval expires under this condition, the docket holder shall file a new

application with the Commission and receive Commission approval prior to initiating construction of any modifications.

- m. The docket holder is permitted to treat and discharge wastewaters as set forth in the Area Served Section of this docket, which incorporates by reference Sections B (Type of Discharge) and D (Service Area) of the docket holder's Application to the extent consistent with all other conditions of this DECISION Section.
- n. The docket holder shall make wastewater discharge in such a manner as to avoid injury or damage to fish or wildlife and shall avoid any injury to public or private property.
- o. No sewer service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).
- p. Nothing in this docket approval shall be construed as limiting the authority of DRBC to adopt and apply charges or other fees to this discharge or project.
- q. The issuance of this docket approval shall not create any private or proprietary rights in the waters of the Basin, and the Commission reserves the right to amend, suspend or rescind the docket for cause, in order to ensure proper control, use and management of the water resources of the Basin.
- r. Unless an extension is requested and approved by the Commission in advance, in accordance with paragraph 11 of the Commission's Project Review Fee schedule (Resolution No. 2009-2), the docket holder is responsible for timely submittal of a docket renewal application on the appropriate DRBC application form at least 12 months in advance of the docket expiration date set forth below. The docket holder will be subject to late charges in the event of untimely submittal of its renewal application, whether or not DRBC issues a reminder notice in advance of the deadline or the docket holder receives such notice. In the event that a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the docket holder, to reissue the docket before the expiration date below (or the later date established by an extension that has been timely requested and approved), the terms and conditions of the current docket will remain fully effective and enforceable against the docket holder pending the grant or denial of the application for docket approval.
- s. The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.
- t. Any person who objects to a docket decision by the Commission may request a hearing in accordance with Article 6 of the Rules of Practice and Procedure. In accordance with Section 15.1(p) of the Delaware River Basin Compact, cases and controversies arising under the Compact are reviewable in the United States district courts.

- u. The docket holder may request of the Executive Director in writing the substitution of specific conductance for TDS. The request should include information that supports the effluent specific correlation between TDS and specific conductance. Upon review, the Executive Director may modify the docket to allow the substitution of specific conductance for TDS monitoring.
- v. The docket holder is prohibited from treating/pre-treating any hydraulic fracturing wastewater from sources in or out of the Basin at this time. Should the docket holder wish to treat/pre-treat hydraulic fracturing wastewater in the future, the docket holder will need to first apply to the Commission to renew this docket and be issued a revised docket allowing such treatment and an expanded service area. Failure to obtain this approval prior to treatment/pre-treatment will result in action by the Commission.

BY THE COMMISSION

DATE APPROVED:

EXPIRATION DATE: April 30, 2016